

FIG. 1 is a schematic diagram of a control system for a building.

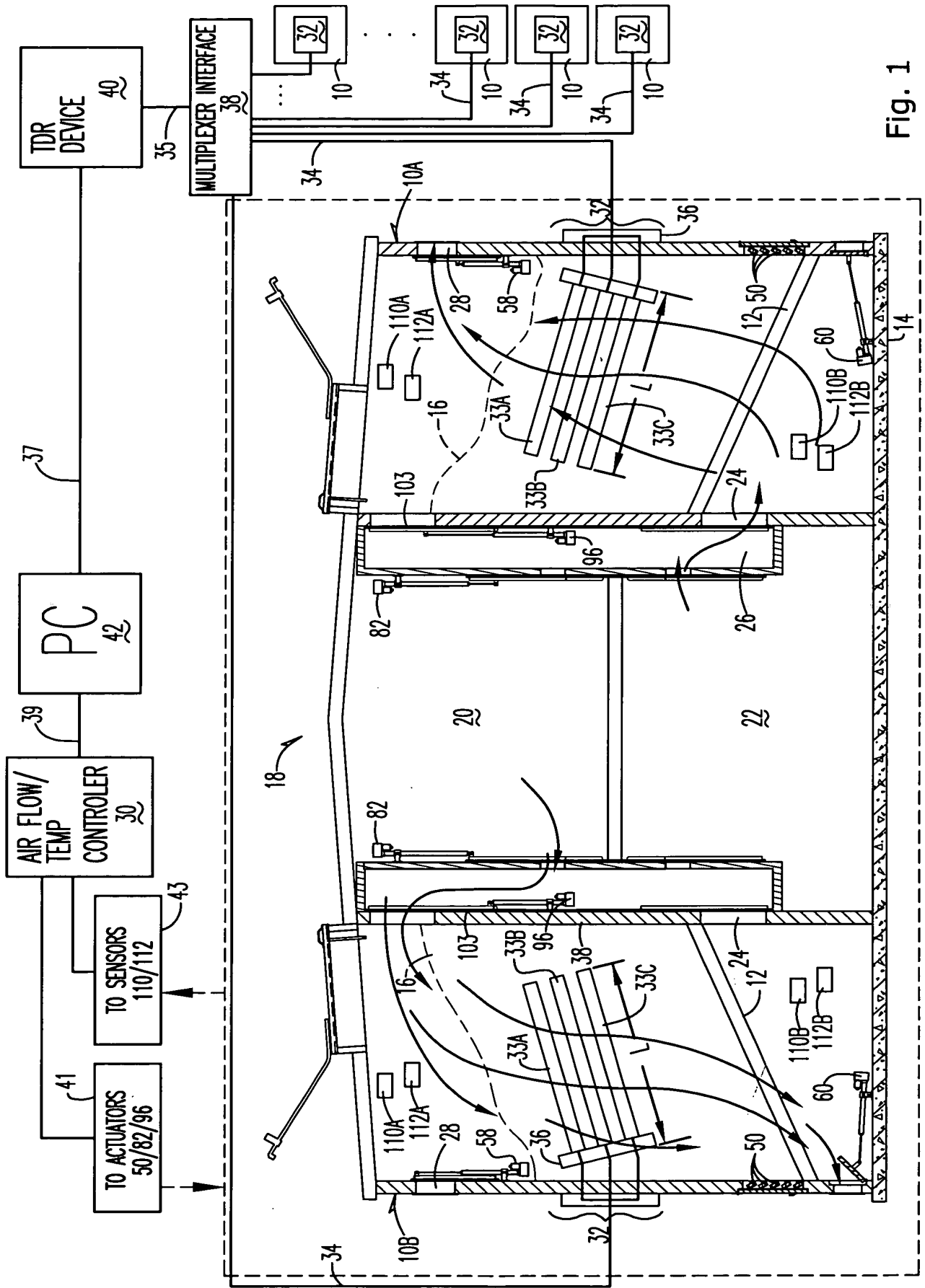
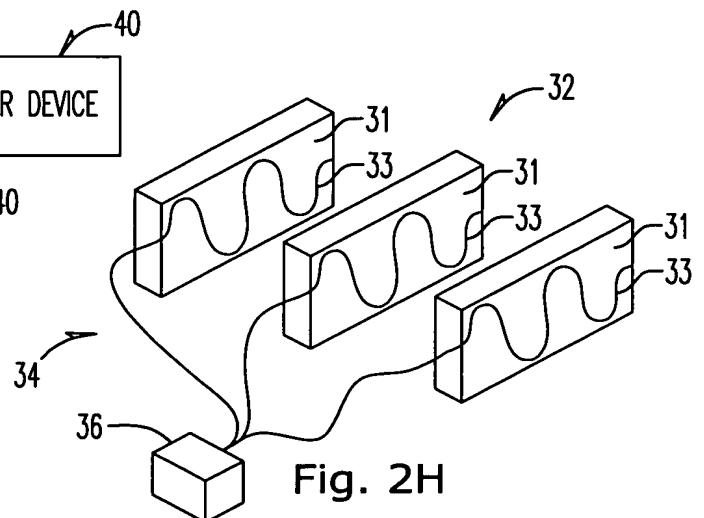
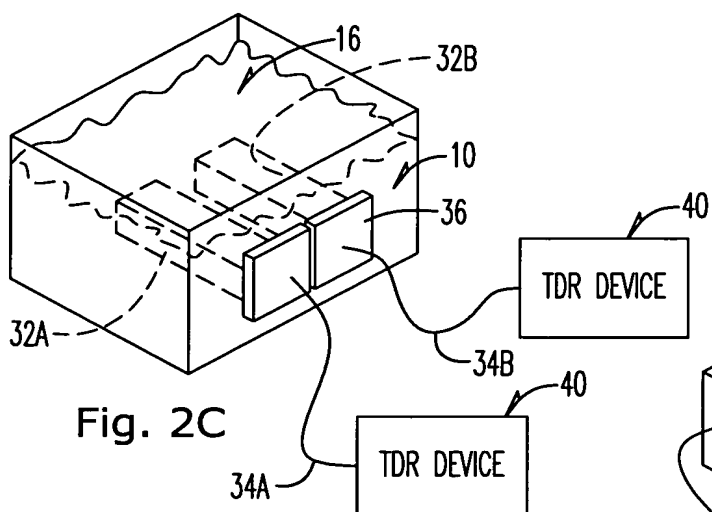
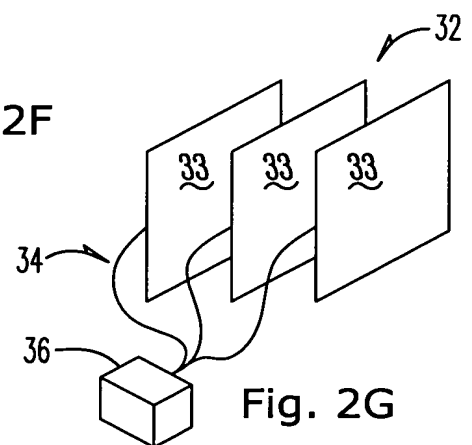
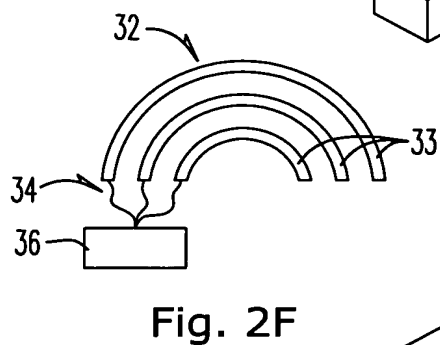
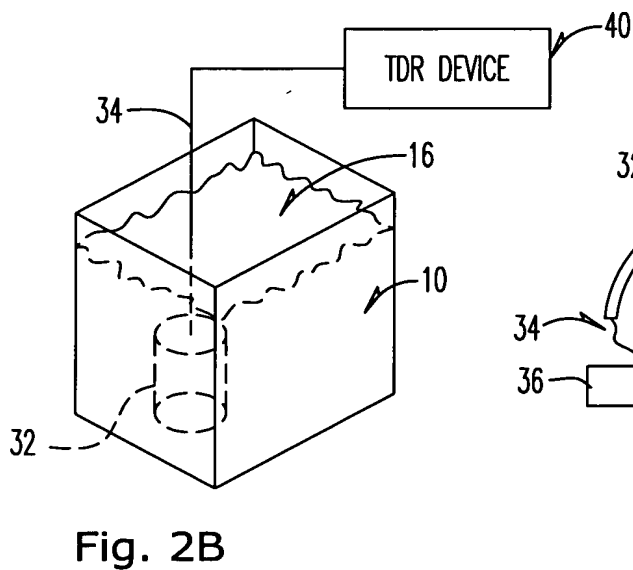
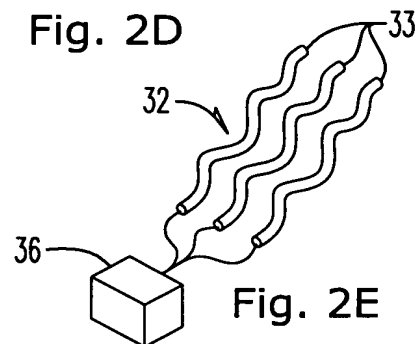
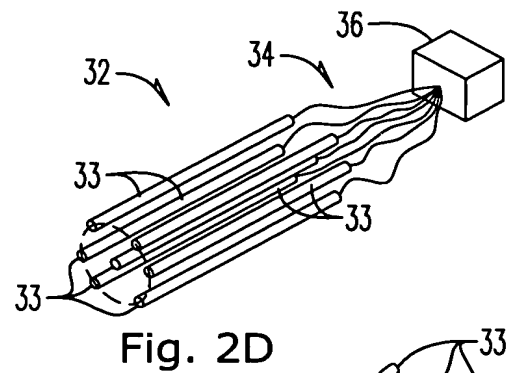
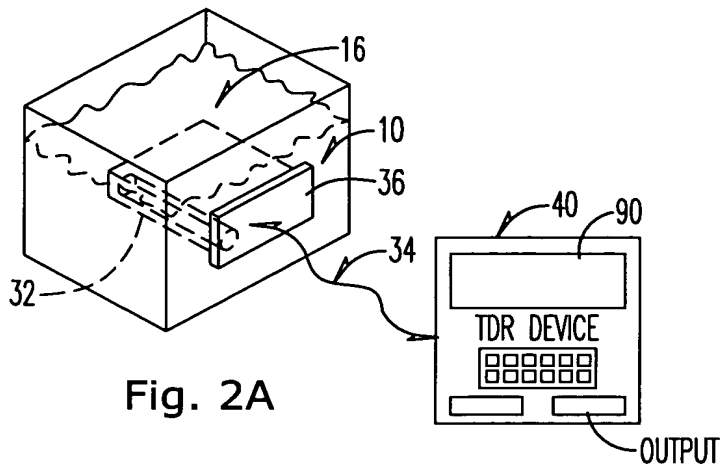
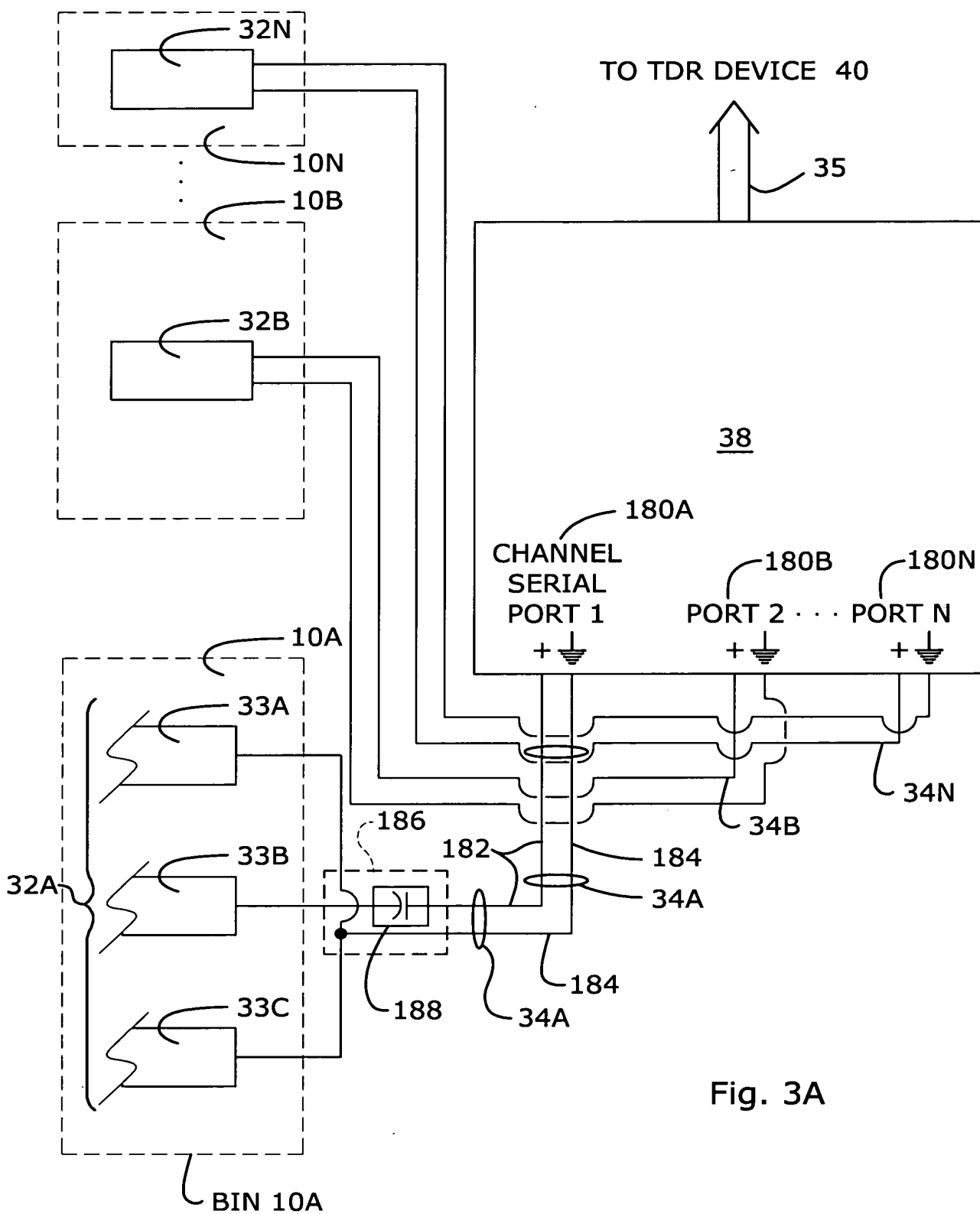


Fig. 1





[Interface between probes
and TDR device]

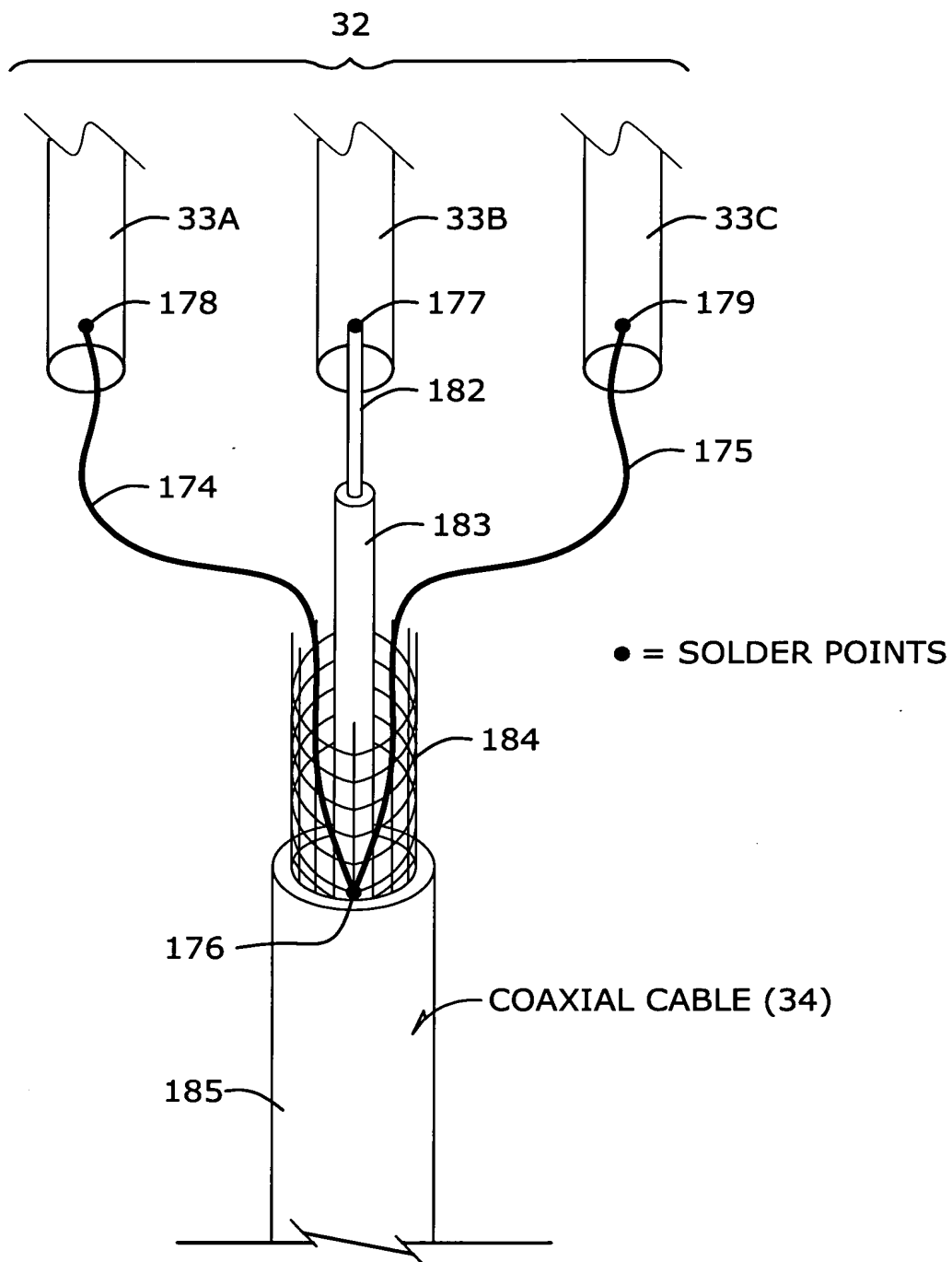


Fig. 3B

TDR Signal for Initial Moisture

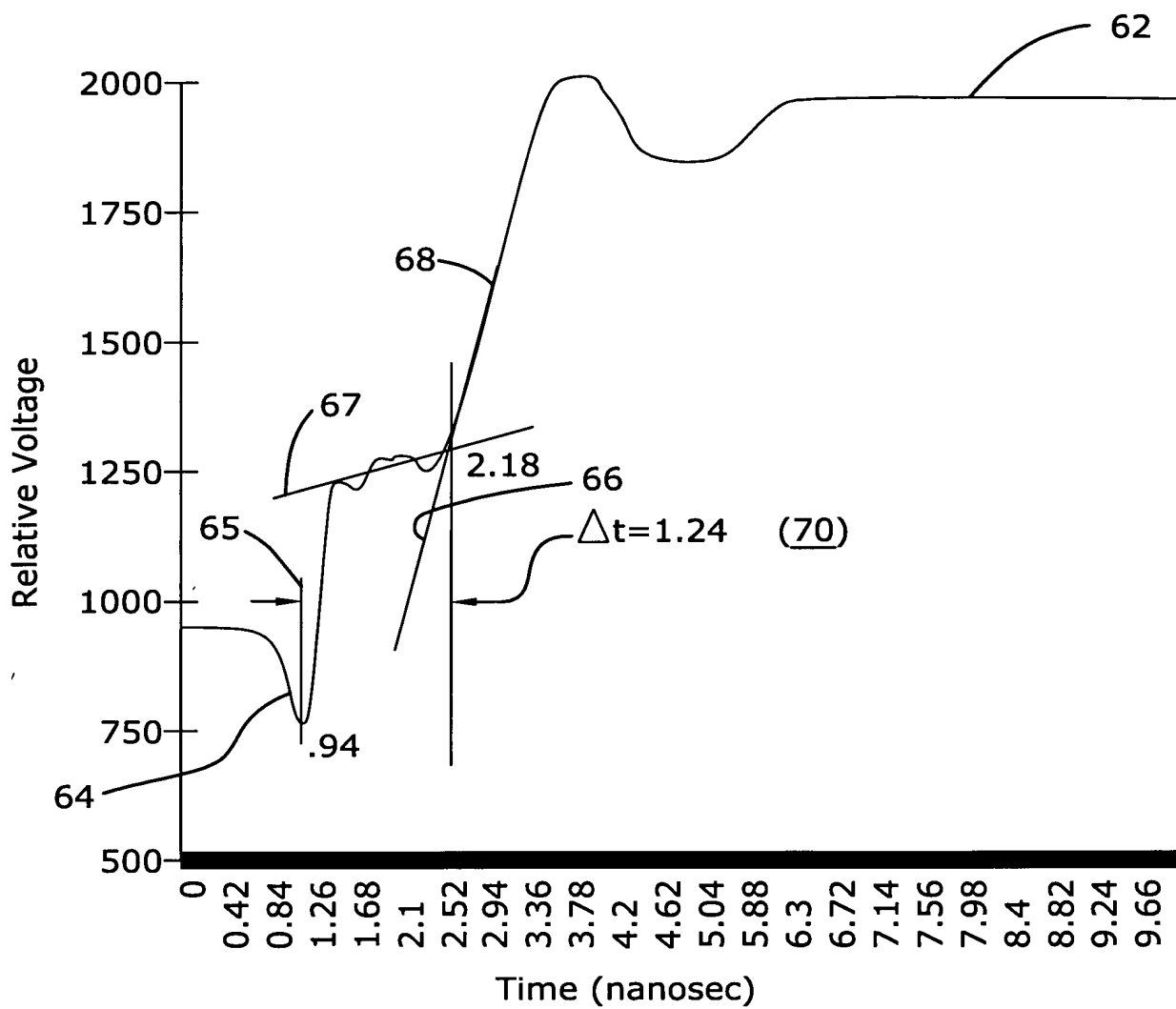


Fig. 4A

TDR Signal for Final Moisture

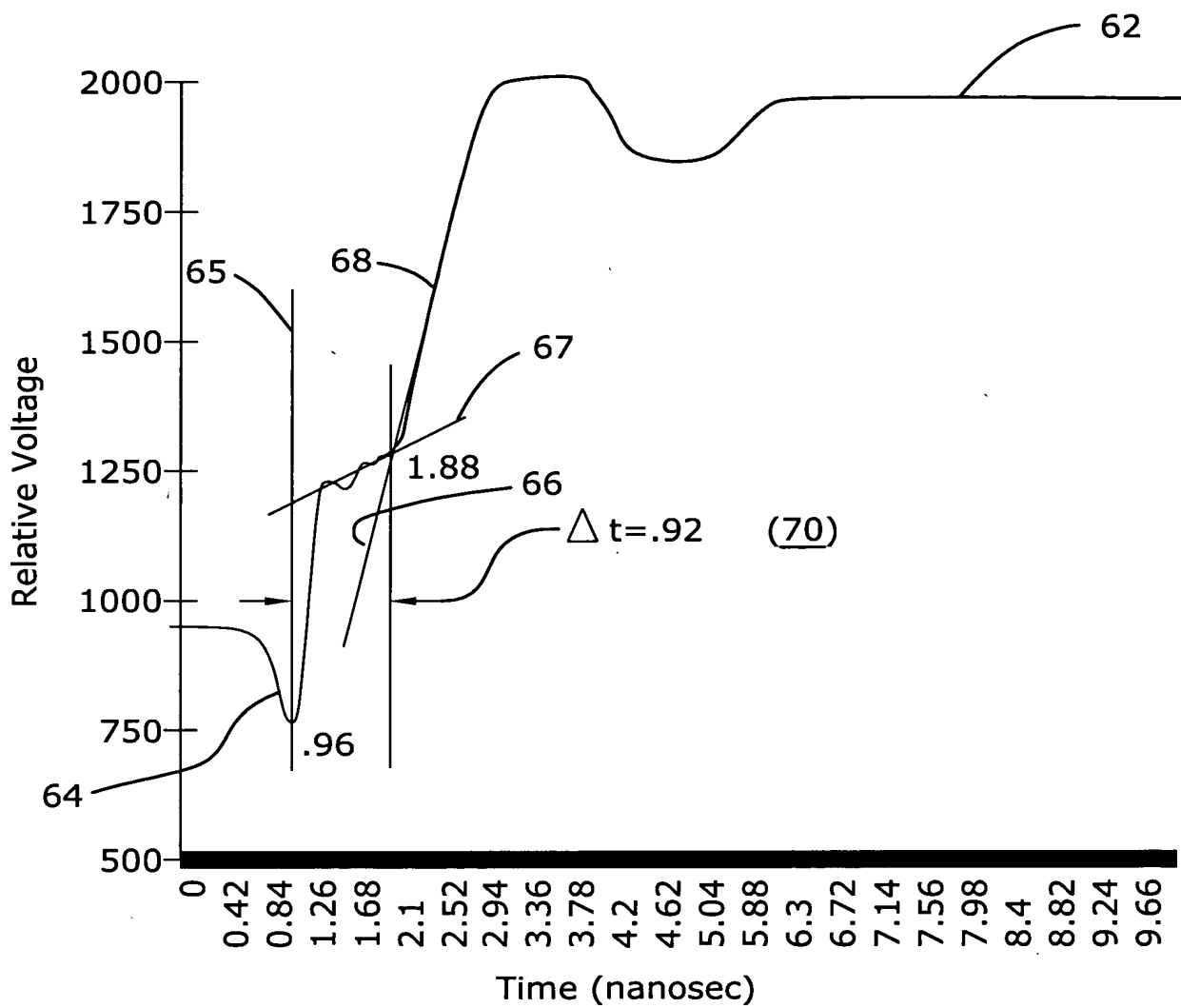


Fig. 4B

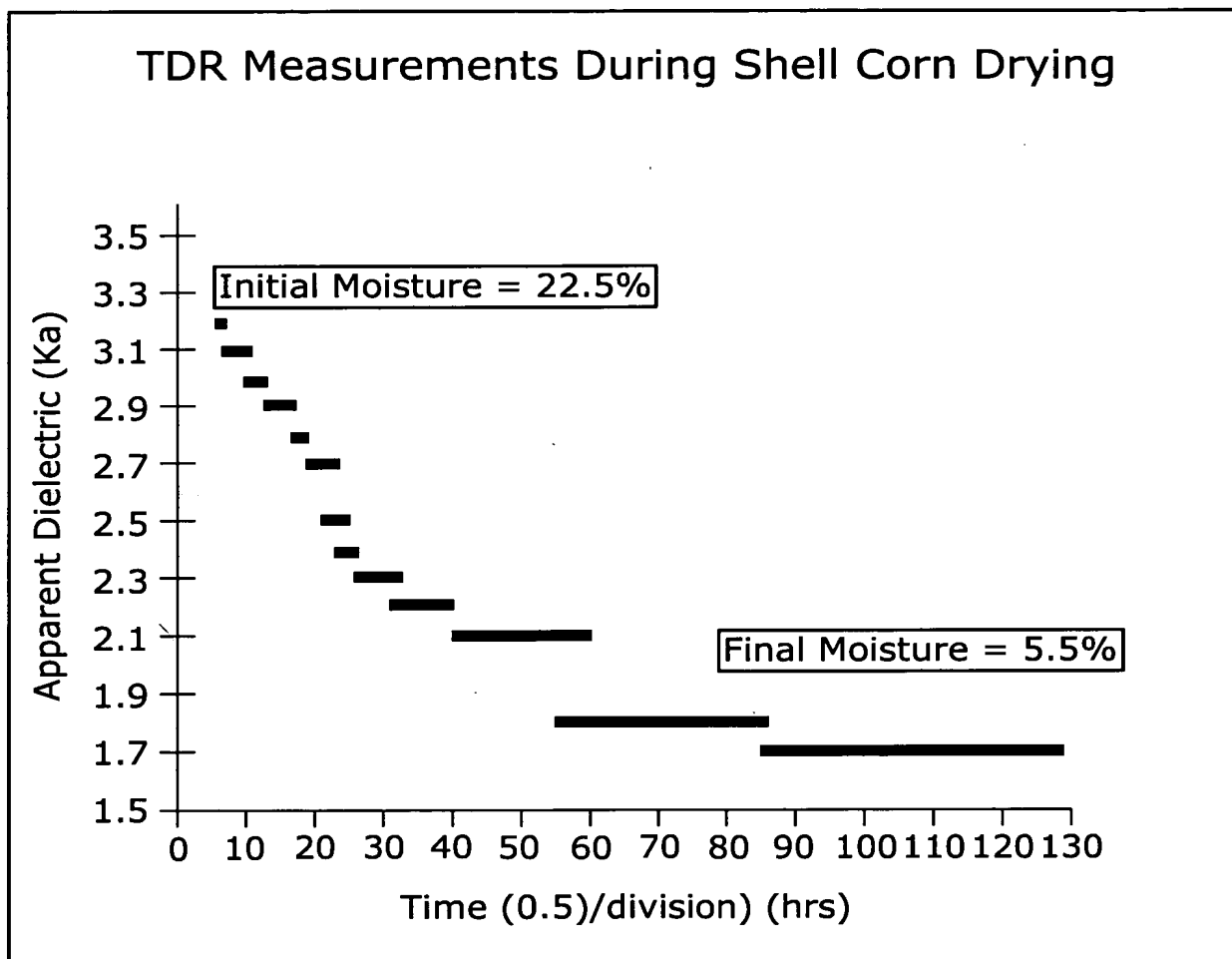


Fig. 5

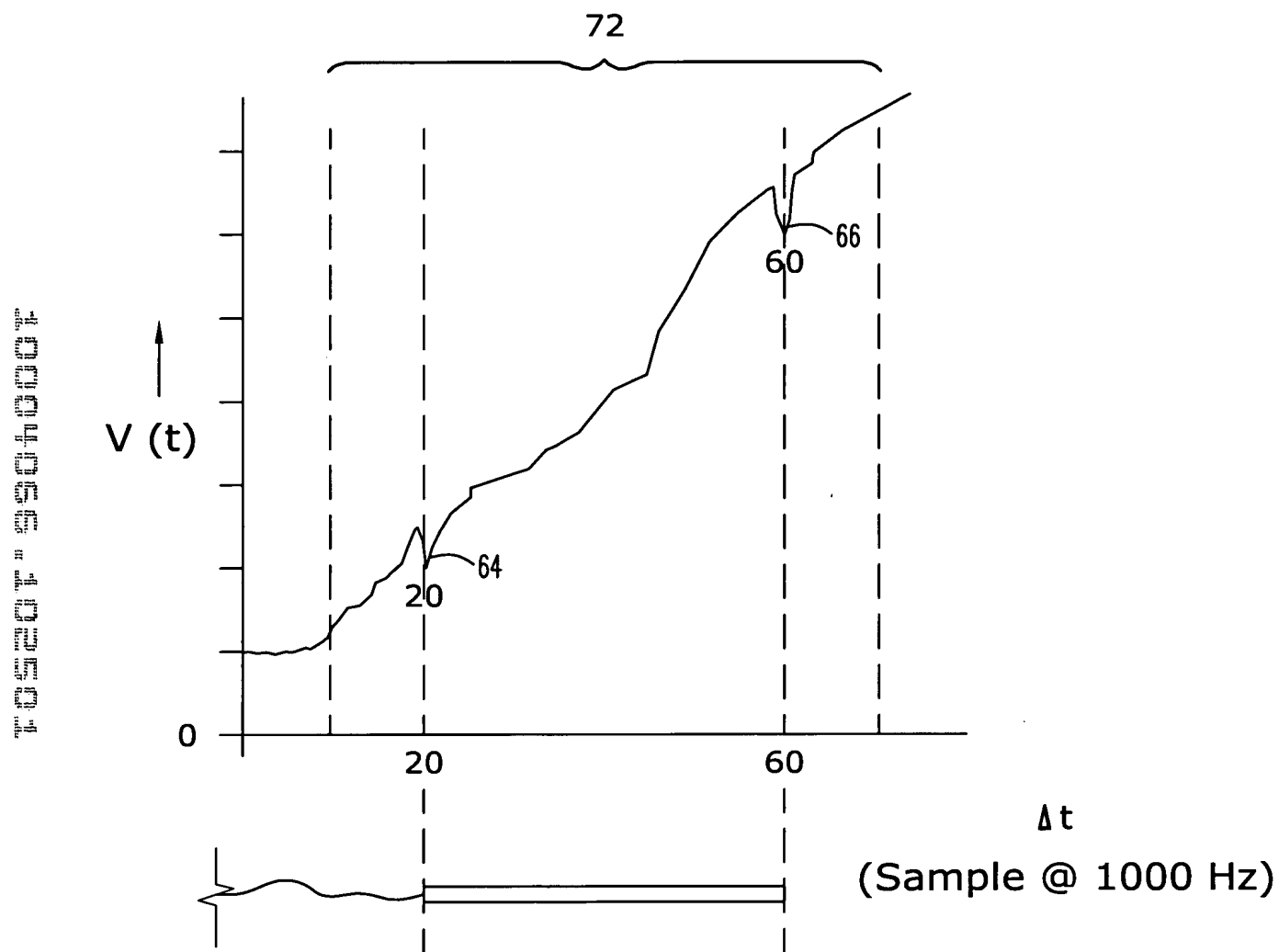


Fig.6

				Wave	guide	M U X			Zero				
#	Tag	%M	Ka	Ft	Typ	C h	G	Tab	T ns	Date	Time	P	Error
1	Abc	22.0	3.70	8	xxx	7	0	STD	17.2	15-Apr	15:30:27	N	
2	Abc	21.8	3.60	8	Xxx	7	0	STD	17.3	15-Apr	16:00:27	1	
3	Abc	21.6	3.50	8	Xxx	7	0	STD	17.3	15-Apr	16:30:27	1	
4	Abc	21.4	3.40	8	Xxx	7	0	STD	17.3	15-Apr	17:00:27	1	
5	Abc			8	xxx	7	0	STD	17.3	15-Apr	17:30:27	1	
.
.
.
74	Abc	0.1	2.00	8	xxx	7	0	STD	17.2	17-Apr	4:00:27	N	
75	Abc	0.1	2.00	8	Xxx	7	0	STD	17.3	17-Apr	4:30:27	1	
76	Abc	0.1	2.00	8	Xxx	7	0	STD	17.3	17-Apr	5:00:27	1	
77	Abc	0.0	2.00	8	Xxx	7	0	STD	17.3	17-Apr	5:30:27	1	
78	Abc	0.0	2.00	8	xxx	7	0	STD	17.3	17-Apr	6:30:27	1	
.
.
.
126	Abc	0.00	1.90	8	Xxx	7	0	STD	17.3	18-Apr	6:00:27	1	
127	Abc	0.00	1.90	8	Xxx	7	0	STD	17.3	18-Apr	6:30:28	1	
128	Abc	0.00	1.90	8	Xxx	7	0	STD	17.3	18-Apr	7:00:28	1	
129	Abc	0.00	1.90	8	Xxx	7	0	STD	17.3	18-Apr	7:30:27	1	
130	Abc	0.00	1.90	8	Xxx	7	0	STD	17.3	18-Apr	8:00:28	1	

FIGURE 7

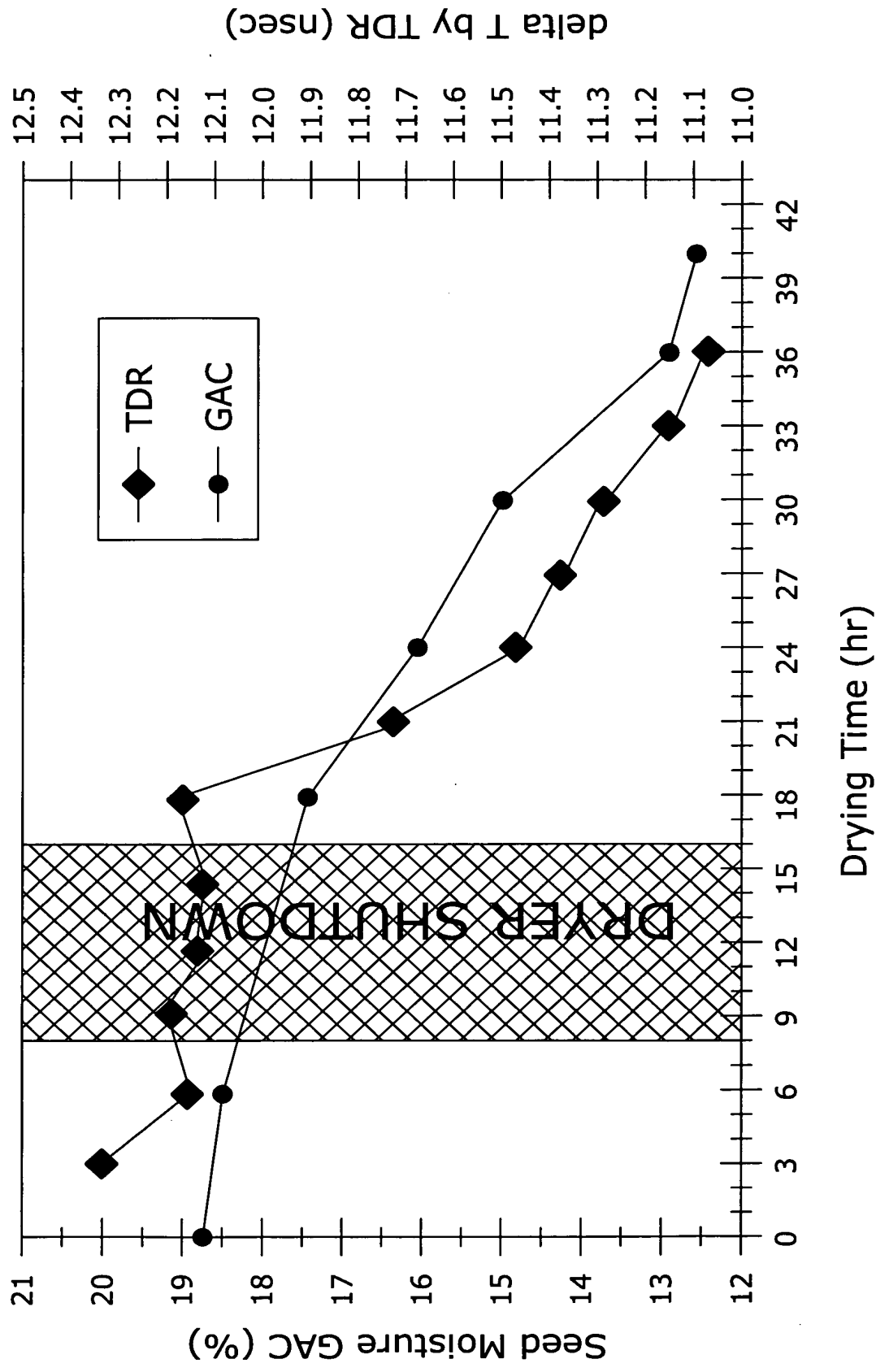
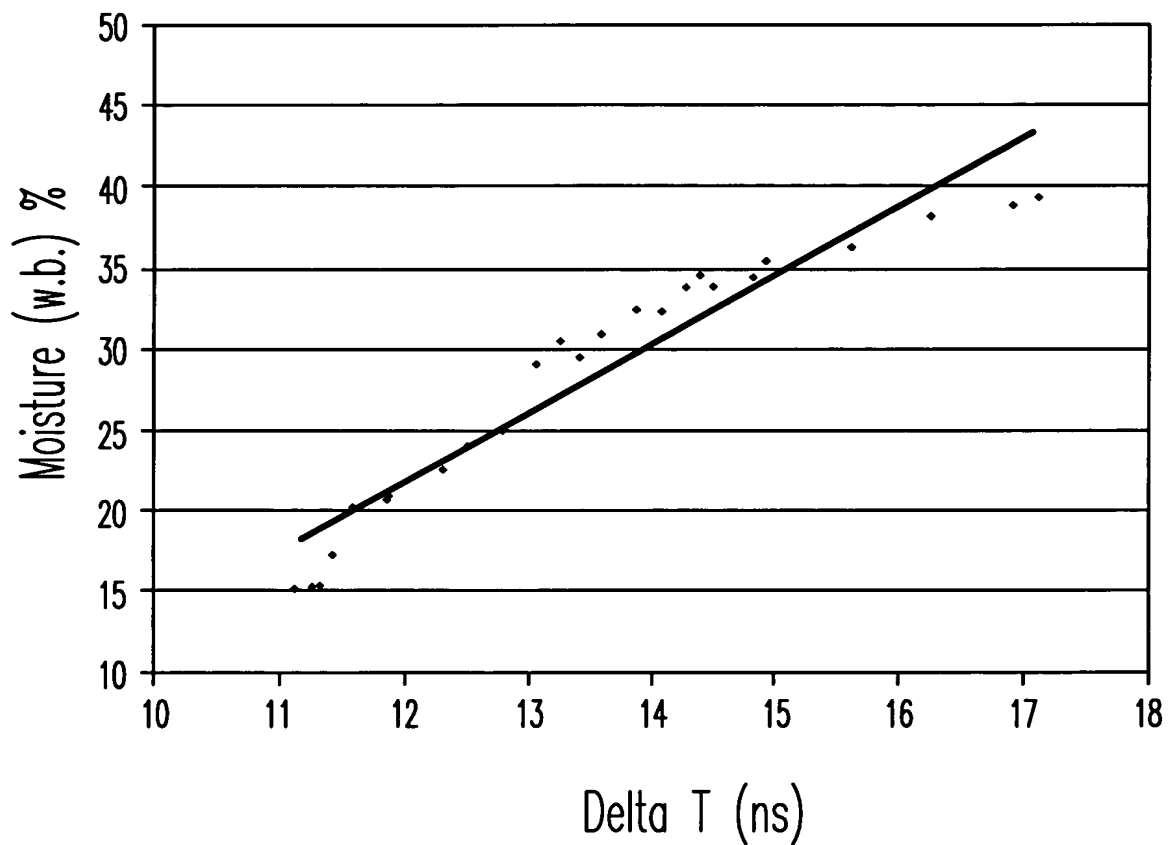


Fig. 8

$$\text{Moisture} = ((4.3096)(\Delta t)) - 29.974$$

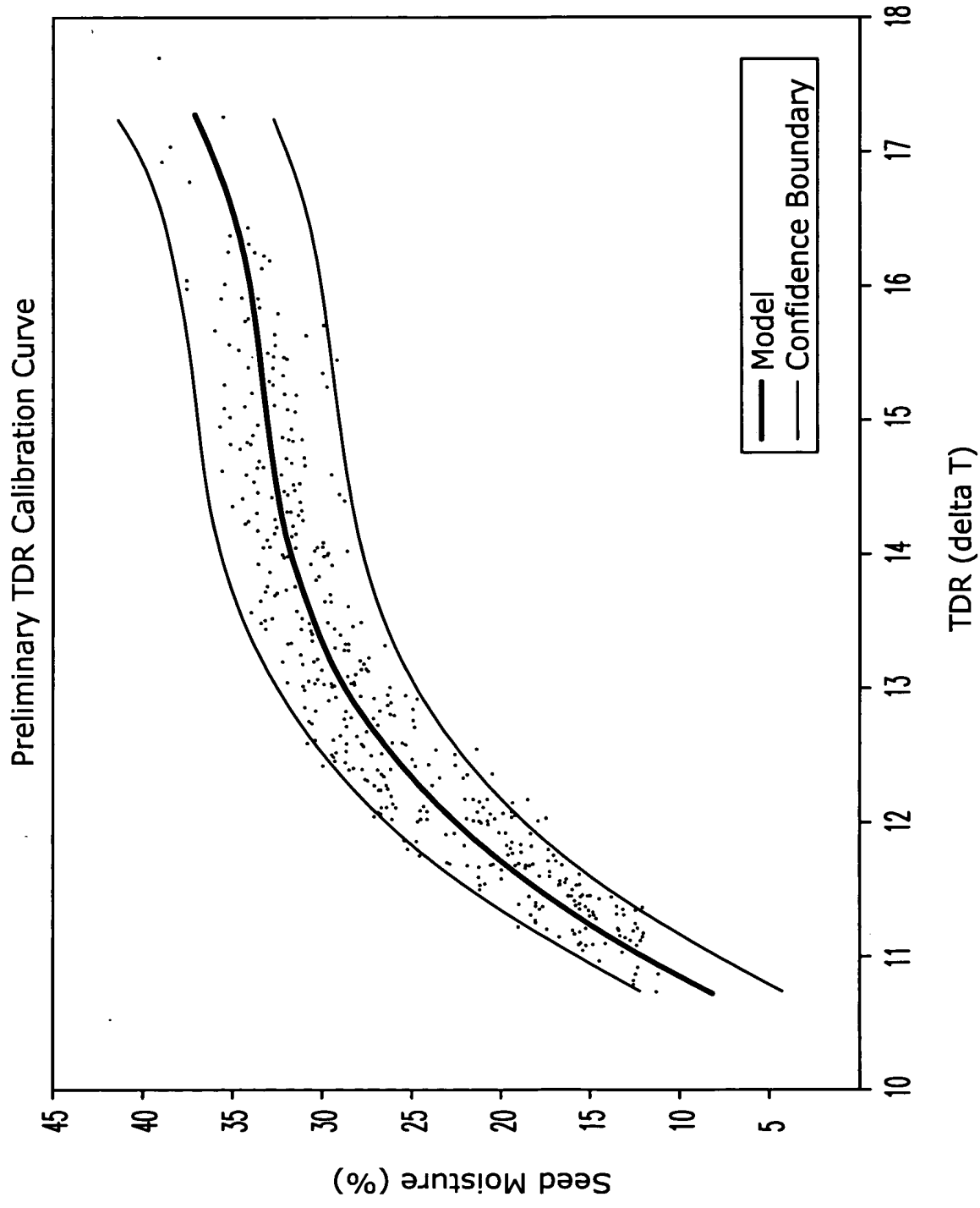
$$R^2 = 0.8847$$

TDR Calibration for Product 1



♦ = TDR Calibration Data

Fig.9A



$$\text{Seed Moisture} = -811 + 165x - 10.8x^2 + 0.24x^3 \quad (x = \text{delta-t})$$

Fig.9B

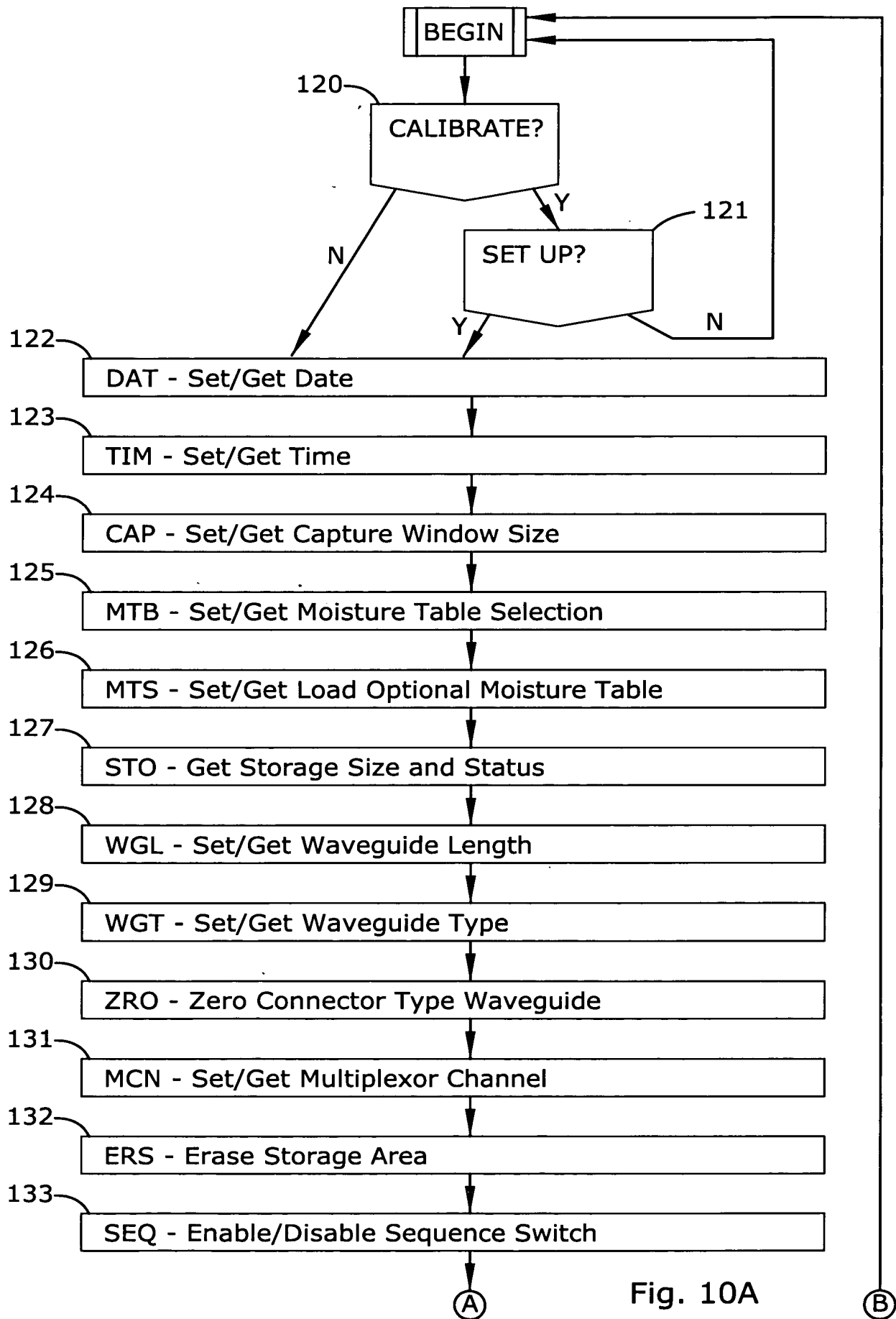


Fig. 10A

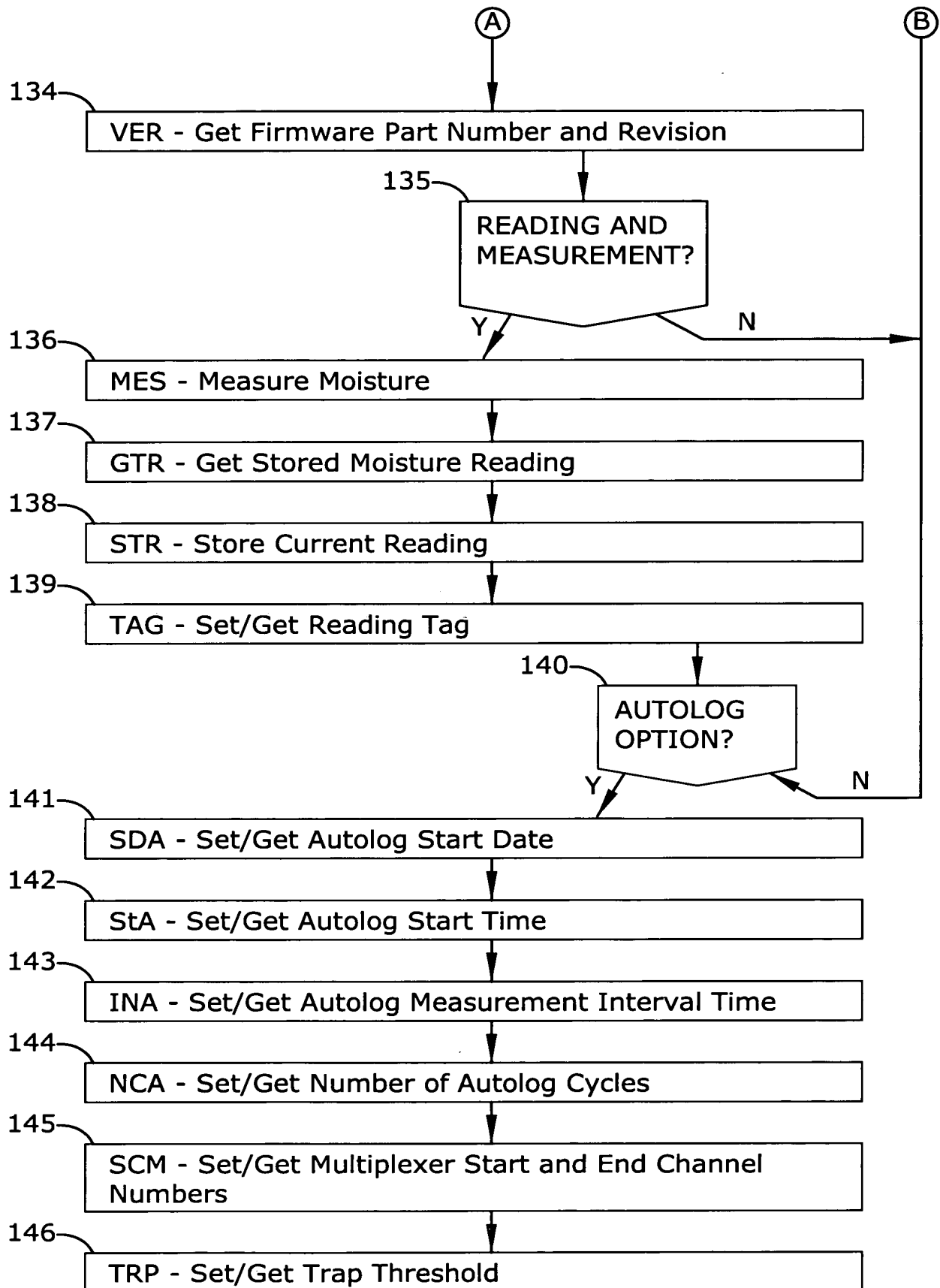


Fig. 10B

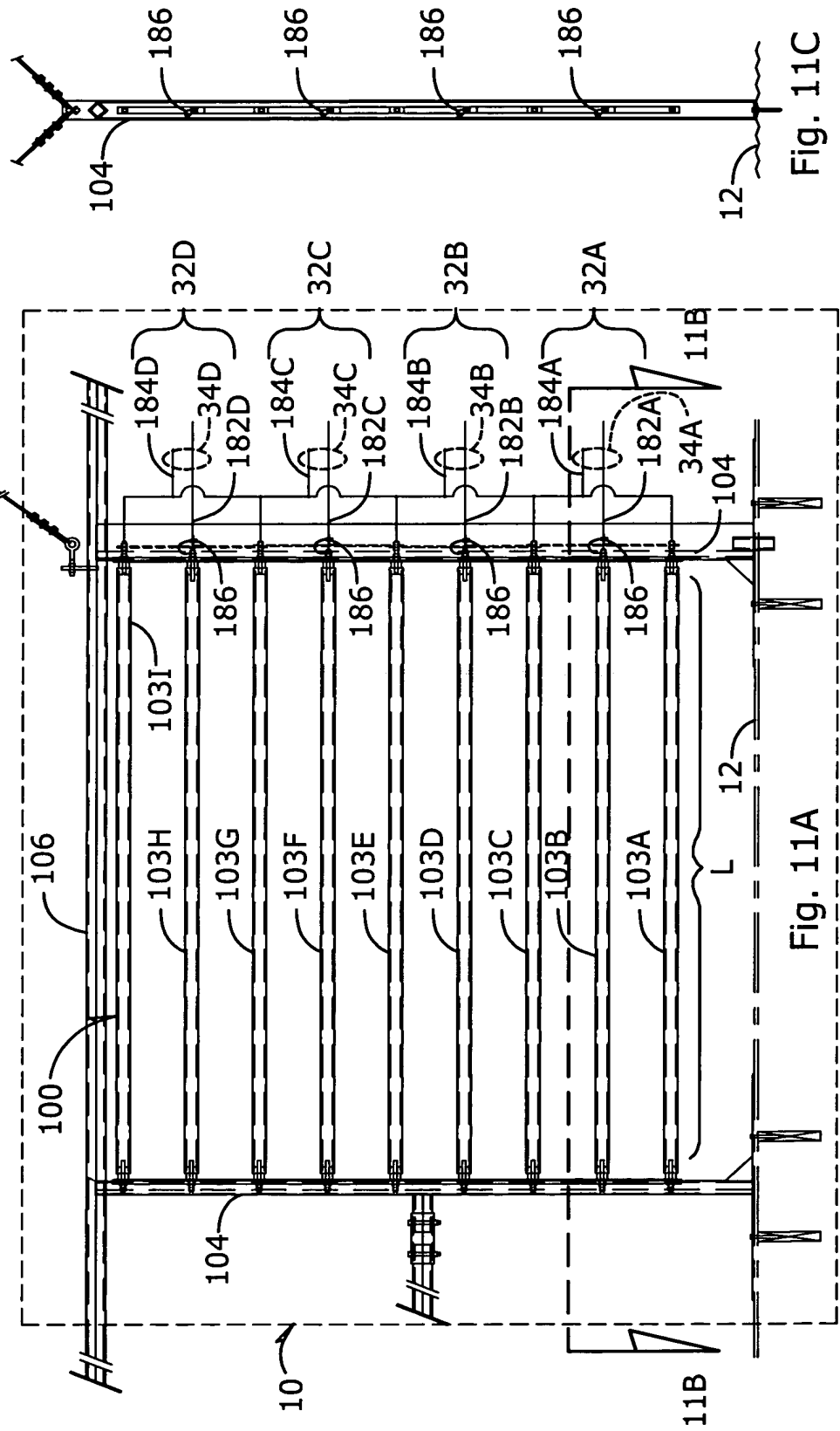
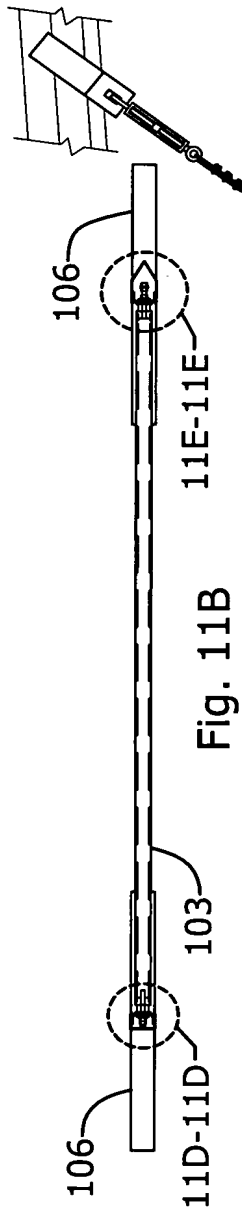


Fig. 11C

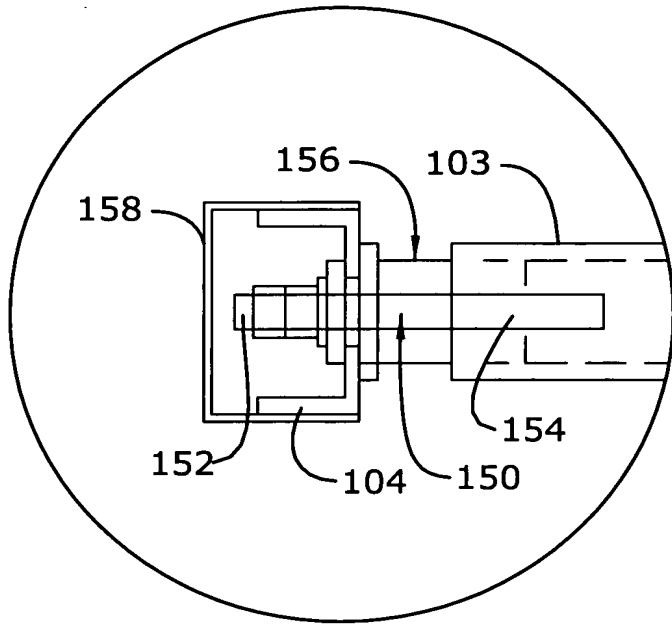


Fig. 11D

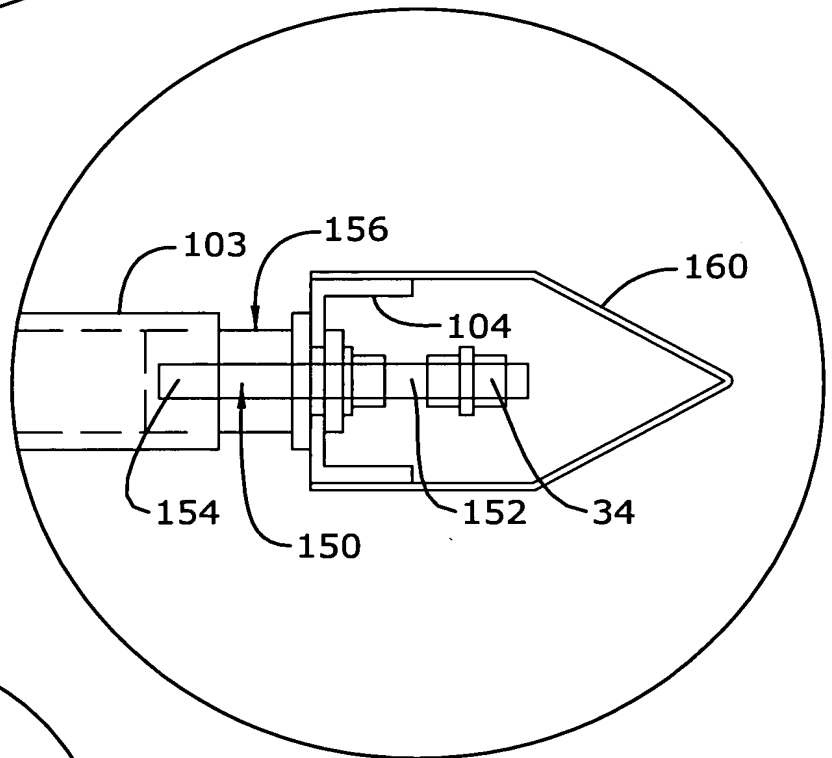


Fig. 11E

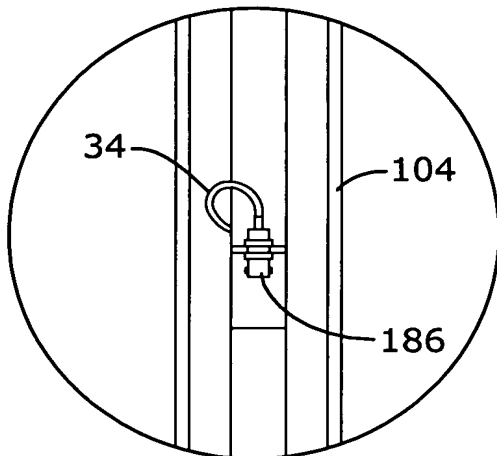


Fig. 11F

103013000F

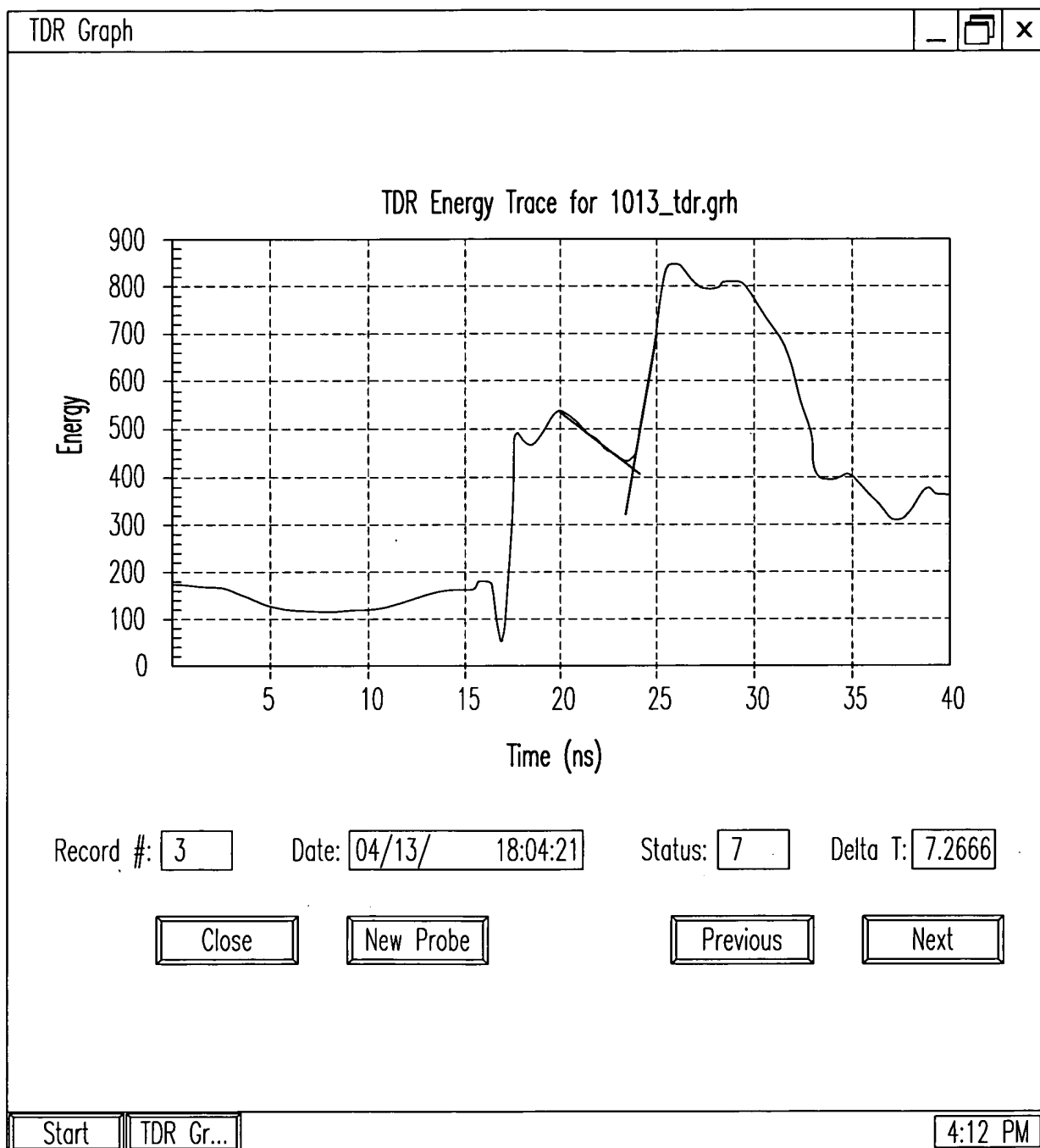


Fig.12